

REMARKS/ARGUMENTS

The applicants thank the Examiner for his kind indication of allowable subject matter in Office Action dated January 6, 2005. Claims 1-26 were initially filed in this application. The Examiner has indicated that Claims 1-6 and 8-26 are allowable. Claim 7 was rejected as indefinite. Accordingly, Claim 7 has been amended to clarify the claim. Claim 27 has been introduced to more clearly claim certain subject matter. No new matter has been introduced. Therefore, Claims 1-27 are currently pending in the application. Reconsideration and allowance are hereby requested.

Rejections Under 35 U.S.C. § 112, 2nd paragraph

Claim 7 has been rejected under 35 U. S. C. §§ 112, 2nd paragraph as being indefinite for failing to particularly point out and distinctly claim the invention. In response, Claim 7 has been amended to more clearly claim that “the calcium is doped into the polysilicon gate electrode such that it forms a thin atomic layer at the gate electrode/gate dielectric interface”. This more clearly states the subject matter and such amendment is believed to place the claim in condition for allowance.

Additionally, Claim 27 has being added to capture certain related subject matter wherein the semiconductor device includes “a boron doped gate electrode on the gate dielectric” and “a thin atomic layer of calcium at an interface between the gate electrode and gate dielectric” (e.g., see, paragraph [0033]). It is not believed that any of the cited references, either alone, or in combination, teach the claimed features of Claim 7 (as amended) or Claim 27. Accordingly, it is respectfully submitted that all claims are allowable at the present time. Therefore, the applicants respectfully request that this grounds for rejection be withdraw.

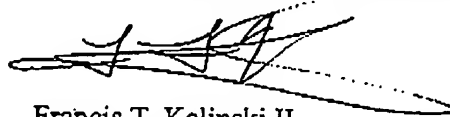
Conclusion:

In view of the foregoing amendments and remarks, it is respectfully submitted that the claimed invention as presently presented is patentable over the art of record and that this case is now in condition for allowance.

Should the Examiner, for any reason, wish to contact the undersigned, he is cordially invited to do so at his convenience. Moreover, if the Examiner has any continuing concerns regarding this case, he is invited to contact the undersigned at (650) 961-8300.

Respectfully submitted,

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